ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

FOR GOD AND COUNTRY

WORKSHEET-05(SOLUTION)

CLASS-12

TOPIC- ALKYL AND ARYL HALIDE

SUBTOPIC-PREPARATION OF ALKYL AND ARYL HALIDE

SUBJECT – CHEMISTRY **F.M. - 15**

DURATION – 30 mins **DATE -07.05.20**

1.1 Diazotisation of Aniline is carried out at-

a) 273K-278K b) 271K c) 298K d) 273K-298K

Ans. a) 273K-278K

1.2 The reacting species during the diazotization of Aniline-

a) NO^+ b) NO_2^- c) NO_2^+ d) NO

Ans. a) NO^+

1.3 Benzene diazonium halide on treatment with H_3PO_2 produces-

a) Benzene b) Phenol c) Chlorobenzene d) Iodobenzene

Ans. a) Benzene

1.4 Benzene diazonium halide on treatment with HBF_4 producea) Iodobenzene b) Fluorobenzene c) Cholrobenzene d) Bromobenzene

Ans. b) Fluorobenzene

1.5 Benzene diazonium halide on treatment with KI produces-

a) Iodobenzene b) Fluorobenzene c) Cholrobenzene d) Bromobenzene

Ans. a) Iodobenzene

1.6 Benzene on treatment with Cl_2 in presence of $FeCl_3$ in dark on complete reaction produces-

a) Hexachlorobenzene b) Benzenehexachloride c) Chloro benzene d) Dichloro benzene

Ans. a) Hexachlorobenzene

1.7 Benzene on treatment with Cl_2 in presence of Ultraviolet rays on complete reaction produces

a) Hexachlorobenzene b) Benzenehexachloride c) Chloro benzene d) Dichloro benzene

Ans. b) Benzenehexachloride

1.8 $C_6H_6Cl_6$ can also be recognized as-

a) 666 b) 6666 c) 3636 d) 66

Ans. a) 666

1.9 C_6Cl_6 can also be recognized as-

a) 666 b) 6666 c) 3636 d) 66

Ans. d) 66

1.10 Toluene on treatment with Cl_2 in $FeCl_3$ under dark condition produces-

a) o-Chloro Toluene b) p-Chloro Toluene c) Both a and b d) None of these

Ans. c) Both a and b

1.11 Chlorine present in the benzene ring exerts-

a) -I and −R b) +I and +R c) -I and +R d) +I and −R

Ans. c) -I and +R

1.12 Benzyl chloride on treatment with aq. NH_3 produces-

a) Benzyl amine b) Benzaldehyde c) Both a and b d) Benzyl cyanide

Ans. a) Benzyl amine

1.13 Benzyl chloride on treatment with aq. NaCN produces-

a) Benzyl cyanide b) Benzaldehyde c) Benzoic acid d) Benzyl alcohol

Ans. a) Benzyl cyanide

1.14 Benzal chloride on treatment with aq. NaOH produces-

a) Benzoic acid b) Benzaldehyde c) Both a and b d) Benzyl alcohol

Ans. b) Benzaldehyde

1.15 Benzo trichloride on treatment with aq. NaOH produces-

a) Benzoic acid b) Benzaldehyde c) Both a and b d) Benzyl alcohol

Ans. a) Benzoic acid

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